

REMARKS

This reply is submitted in response to the Final Office Action dated December 21, 2005. Claims 1, 11, 16, 19, 22, and 29 are amended, and claims 7, 15, and 27 are canceled without prejudice, as noted above. Support for the amendments can be found in the original claims and throughout the specification. Thus, no new matter is added. The amendments above and remarks that follow address the points raised in the Office Action and, thereby are believed to place this application in condition for allowance.

Allowable Claims

The Examiner has indicated that claims 7, 15, 16, 19, 27, and 29 would be allowable if rewritten to include the limitations of their respective base claims (i.e., claims 1, 11, and 22). Accordingly, claims 7, 15, and 27 have been canceled, and claims 1, 11, and 22 are amended to include their limitations. Thus, claims 1, 11, and 22 should now be allowable. Claims 19 and 29 have been amended to include the limitations of their base claims and, thus, should now be allowable. Further, as claims 2-6 and 8-10 depend on claim 1, claims 12-14, 16-18, and 20-21 depend on claim 11, and claims 23-26 and 28 depend on claim 22, they are also believed to be in condition for allowance.

Drawings

The drawings are objected to for not including reference numeral 118 in FIG. 3. In response, the specification is changed to remove the reference to reference numeral 118 with respect to FIG. 3 to overcome this objection.

Claim Objections

Claim 29 is objected to because of an informality regarding the recitation of $c_{km}^*[r]$. Claim 29 is amended to recite that " $c_{km}^*[r]$ represents the complex conjugate of a user code..."

Claim Rejections under 35 U.S.C. 102

Claims 1-3, 5, 6, 8, 10-13, 17, 18, and 20-26 stand rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,570,864 of Kim. Independent claims 1, 11, and 22 are amended to include the limitations of allowable claims 7, 15, and 27. Thus, the basis for this rejection is obviated.

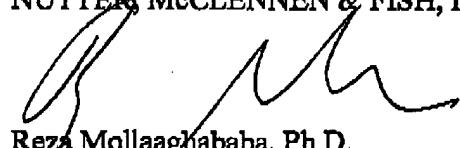
Claim Rejections under 35 U.S.C. 103

Claims 4, 9, 14, and 28 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Kim in view of U.S. Patent No. 6,282,233 of Yoshida. Dependent claims 4, 9, 14, and 28 depend from allowable claims. Thus, the basis for this rejection is obviated.

Conclusion

In view of the above amendments and remarks, Applicant respectfully submits that the claimed invention is patentable. Applicant therefore kindly requests reconsideration and allowance of the pending application.

Respectfully submitted,
NUTTER, McCLENNEN & FISH, LLP


Reza Mollaaghatababa, Ph.D.

Reg. No. 43,810

NUTTER, McCLENNEN & FISH, LLP

Attorney for Applicant
World Trade Center West
155 Seaport Boulevard
Boston, MA 02110-2604
Tel: (617)439-2514
Fax: (617)310-9514

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